

shall be met for each measurement of actual throughput regardless of past delivery of suites.

Although system throughput shall be monitored daily, the accumulated System Life Throughput of the workstream **shall be calculated for the most recent six (6) months**. At the sole discretion of the Government, shortfalls in throughput, when compared to the proposed throughput, shall be made up with either the delivery of additional equipment installed at no cost to the Government, or accrual of downtime credit. Should the Government elect the delivery of additional equipment to satisfy throughput shortfalls, the Government will calculate the duration of the compensation using the demonstrated benchmark performance on the upgraded HPC Subsystem. It is the Government's goal to meet or exceed the total System Life Throughput by the end of the contract in a manner that does not require frequent disruptions, front-loading of cycles, or back-loading of cycles. As such, the Government will schedule compensatory upgrades with planned upgrades, such as the mid-life upgrade, or every 6 months. The Government may make special arrangements when there is less than 6 months left in the contract. Should the Government elect downtime credits in lieu of additional equipment, downtime credits will be deducted from the most recent invoice. Downtime credits shall accrue on all components of the system(s).

At the sole discretion of the Government, shortfalls in proposed availability or performance of non-computational components shall be rectified with the delivery of additional equipment or engineering, at no cost to the Government, or accrual of downtime credit. To better reflect NOAA's computational needs over time, changes in the HPCS workstream benchmarks shall be made by mutual agreement between the Government and the Contractor throughout the life of the HPCS. If the parties are unable to reach mutual agreement, the Government reserves unilateral right to determine changes to the HPCS workstream benchmarks and the Contractor agrees that it will comply subject to the Disputes Clause.

The Government requires a credible method of maintaining system availability. The Government expects that fail-over and high reliability components will be used. The Government requires sufficient power during environmental failure to gracefully shut down all components of the HPCS. Further, the Government requires adequate power conditioning to insulate the System from power spikes and sags. It is expected that uninterruptible power supplies (UPSs) and power distribution units (PDUs) will be needed for all components of the HPCS to meet these requirements.